

<p style="text-align: center;"><b>O I P INFORMATION DISCLOSURE CITATION</b>  <small>(Use several sheets if necessary)</small></p> <p style="text-align: right;">SEP 23 2004</p> <p style="text-align: center;">U.S. PATENT DOCUMENTS</p>					Docket Number (Optional) 15689.61	Application Number 09/701,705	
					Applicant(s) Yukihiko Okumura et al.		
					Filing Date December 1, 2000	Group Art Unit 2661	
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Q5	1	5,737,327	4/7/1998	Ling et al.	370	335	3/29/1996
<b>RECEIVED</b> SEP 29 2004 Technology Center 2000							
U.S. PATENT APPLICATION PUBLICATIONS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
Q7	2	EP 0 715 440 A1	6/5/1996	Europe	H04L27	22	✓
OTHER DOCUMENTS <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>							
Q5	3	CHANNEL ESTIMATION FILTER USING TIME-MULTIPLEXED PILOT CHANNEL FOR COHERENT RAKE COMBINING IN DS-CDMA MOBILE RADIO Hidehiko Andoh, Mamoru Sawahashi, and Fumiaki Adachi July 1998					
EXAMINER 				DATE CONSIDERED 8/21/05			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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INFORMATION DISCLOSURE CITATION (Use separate sheets if necessary)				Docket Number (Optional) 15689.61	Application Number 09/701,705
JUL 07 2003 RECEIVED U.S. PATENT AND TRADEMARK OFFICE		Applicant(s) Yukihiko Okumura et al.		Filing Date December 1, 2000	Group Art Unit 2661
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS
SUBCLASS					
FILING DATE IF APPROPRIATE					
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JUL 11 2003					
Technology Center 2600					
FOREIGN PATENT DOCUMENTS					
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS
Translation YES NO					
GG	09008770A	1/10/1997	Japan	H04J13	04
GG	10051424A	2/20/1998	Japan	H04J13	04
GG	11284990A	10/15/1999	Japan	H04N7	18
GG	11186990A	7/9/1999	Japan	A04J13	04
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
GG	5	DS-CDMA: The Performance of Channel Estimation Method Using Adaptive Weighted Multi-Symbol Averaging (VMSA) with Pilot Channel in DS-CDMA Sadayuki Abeta, Mamoru Sawahashi, Fumiyoaki Adachi NTT Mobile Communication Network Inc. page 67 to 79; April, 1998			
EXAMINER			DATE CONSIDERED 8/22/05		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Atty. Docket no.: 3815/107	Application serial no.: 09/701,705
		Applicants: OKUMURA, et al.	<b>RECEIVED</b>
		Filing Date: Dec. 1, 2000	Group Art Unit: 266/JUN 1 2001



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### U.S. PATENT DOCUMENTS

Exam. Init.	Cite No.	Document Number	Date	Name	Class	Subclass
					<b>RECEIVED</b>	

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### FOREIGN PATENT DOCUMENTS

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Exam. Init.		Document Number	Date	Country	Class	Translation
Q5	1	PCT/JP98/05241 (WO 99/27672)	June 3, 1999	PCT		
Q5	2	PCT/JP98/05727 (WO 99/31835)	June 24, 1999	PCT		
Q5	3	PCT/JP99/02154 (WO 99/55033)	Oct. 28, 1999	PCT		

### OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

EXA M. INIT.	CITE NO.	
Q5	1	Seiichi Sampei And Terumi Sunaga, "Rayleigh Fading Compensation For QAM In Land Mobile Radio Communications," IEEE Trans. Vehicular Technol., Vol. 42, No. 2, pp. 137-147, May 1993
Q5	2	Seiichi Sampei, "Rayleigh Fading Compensation Method For 16 QAM MODEM In Digital Land Mobile Radio Systems," IEICE (Sect. B-II), Vol. J72-B-II, No. 1, pp. 7-15, January 1989
Q5	3	Hidehiro Andoh, et al., "Channel Estimation Filter Using Time-Multiplexed Pilot Channel For Coherent RAKE Combining in DS-CDMA Mobile Radio," IEICE Trans. Commun., Vol. E81-B, No. 7, pp. 1517-1526, July 1998
G7	4	H. Andoh, et al., "Performance of Pilot Symbols-Assisted Coherent RAKE Receiver Using Weighted Multi-Slot Averaging for DS-CDMA Mobile Radio," Technical Report of IEICE. RCS97-74, pp. 63-68, July 1997



8/30/05

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USSN: 09/701,705Atty. Dkt. No. 3815/107  
JUN 1 2001

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Technology Center 2600

Q9	5	Sadayuki Abeta, et al., "Performance Comparison Between Time-Multiplexed Pilot Channel and Parallel Pilot Channel for Coherent Rake Combining in DS-CDMA Mobile Radio," IEICE Trans. Commun., Vol. E81-B, No. 7, pp. 1417-1425, July 1998
Q9	6	Sadayuki Abeta, et al., "The Performance of Channel Estimation Method Using Weighted Multi-Symbol Averaging (WMSA) with Pilot Channel in DS-CDMA," Technical Report of IEICE. RCS97-163, pp. 43-50, November, 1997
Q9	7	Sadayuki Abeta, et al., "DS/CDMA Coherent Detection System with a Suppressed Pilot Channel," IEEE GLOBECOM '94, pp. 1622-1626, 1994; Vol 3; 28 Nov - 2 Dec 1994
Q9	8	Sadayuki Abeta, et al., "A Coherent Detection System With A Suppressed Pilot Channel For DS/CDMA Systems," IEICE (Sect. B-II), Vol. J77-B-II, No. 11, pp. 641-648, November 1994
Q9	9	Sadayuki Abeta, et al., "Adaptive Channel Estimation for Coherent DS-CDMA Mobile Radio Using Time-Multiplexed Pilot and Parallel Pilot Structures," IEICE Trans. Commun., Vol. E82-B, No. 9, pp. 1505-1513, September 1999
Q9.	10	Sadayuki Abeta et al., "The Performance of Channel Estimation Method Using Adaptive Weighted Multi-Symbol Averaging (WMSA) with Pilot Channel in DS-CDMA," Technical Report of IEICE. SSE98-20 (RCS98-20) pp. 67-74, April, 1998

Examiner:

Date considered: 8/22/05

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